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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,253	10/16/2003	Pierre Bouley	SCHN : 035	1892
6160	7590	08/24/2004	EXAMINER	
PARKHURST & WENDEL, L.L.P. 1421 PRINCE STREET SUITE 210 ALEXANDRIA, VA 22314-2805			TA, THO DAC	
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 08/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/686,253

Applicant(s)

BOULEY ET AL.

Examiner

Tho D. Ta

Art Unit

2833

*[Signature]*

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 14 June 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 8 is/are rejected.
- 7) ☒ Claim(s) 4-7 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: page 1 of U.S. 6,464,545

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Yano (6,464,545).

In regard to claim 1, Yano discloses an elastic connection terminal for an electric device, the device comprising a conducting part (42) located at one end thereof and comprising a support strip (see attached drawing) having a front face and a back face comprising a connection region (adjacent 46), the terminal for being fastened to the support strip and comprising: an elastic loop (27a) provided with a fitting arm (see attached drawing), a cable clamping arm (see attached drawing) and a bent part (see attached drawing) connecting the fitting arm and the clamping arm, the fitting arm for abutting the front of the support strip of the electric device and being in contact with the conducting part (42) of the electric device, the clamping arm having a window (48) for clamping a cable (74) between the back face of the support strip and an edge of the window (48), and, an auxiliary part (11) for stopping one end of the cable (74) inserted into the terminal, wherein the auxiliary part (11) is brought into contact with the back

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face of the support strip (2b) and comprises at least one attachment element (26', see attached drawing) gripping a region of the support strip, thereby joining with such a conducting part (42).

In regard to claim 2, Yano discloses that the auxiliary part (11) comprises cable guide panels (side walls perpendicular to fitting arm of support strip), the panels for extending as far as the connection region (adjacent 46) of the support strip and comprising attachment elements (26, 26' see attached drawing) located adjacent such a connection region.

In regard to claim 3, Yano discloses that the auxiliary part (11) further comprises a back wall (see attached drawing), wherein the guide panels are for abutting a support strip together with the back wall to define an individual compartment for each cable, each compartment being electrically isolated from the adjacent compartment.

In regard to claim 8, Yano discloses that the auxiliary part (11) comprises at least one stop (see attached drawing) cooperating with a stop face (see attached drawing) of a housing 50.

### ***Allowable Subject Matter***

3. Claims 4-7 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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4. The following is a statement of reasons for the indication of allowable subject matter: In regard to claim 4, the prior art fails to provide, teach or suggest the guide panels each have an end portion having a profile for slidingly receiving the clamping arm. In regard to claim 5, the prior art fails to provide, teach or suggest the conducting part is provided with a slit and that the bottom of the auxiliary part is provided with an assembly tongue. In regard to claim 7, the prior art fails to provide, teach or suggest that the protective part being independent of the auxiliary part; and in combination with all of the limitations of the base claim and any intervening claims (it is not obvious to combine references 6,283,801 with 5,879,204).

#### ***Response to Arguments***

5. Applicant's arguments with respect to claims 1-3 and 8 have been considered but are moot in view of the new ground(s) of rejection.

#### ***Conclusion***

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tho D. Ta whose telephone number is (571) 272-2014. The examiner can normally be reached on M-F (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (571) 272-2800 ext 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

tdt  
08/20/04

  
THO D. TA  
PRIMARY EXAMINER

10/686253



US006464545B2

(12) **United States Patent**  
Yano

(10) Patent No.: **US 6,464,545 B2**  
(45) Date of Patent: **Oct. 15, 2002**

(54) **ELECTRICAL DEVICE CONNECTION  
TERMINAL**

(75) Inventor: **Keisuke Yano, Kyoto (JP)**

(73) Assignee: **OMRON Corporation, Kyoto (JP)**

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/107,326**

(22) Filed: **Mar. 28, 2002**

(65) **Prior Publication Data**

US 2002/0142671 A1 Oct. 3, 2002

(30) **Foreign Application Priority Data**

Mar. 30, 2001 (JP) ..... 2001-100682

(51) Int. Cl.<sup>7</sup> ..... **H01R 4/48**

(52) U.S. Cl. .... **439/828; 439/441**

(58) Field of Search ..... **439/828, 835, 439/721, 441**

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

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5,860,637 A \* 1/1999 Mandon ..... 267/164  
6,126,494 A \* 10/2000 Fuchs et al. .... 439/441  
6,146,486 A \* 11/2000 Ozaki et al. .... 156/244.11

**FOREIGN PATENT DOCUMENTS**

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JP	6-216935	8/1994	12/54
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\* cited by examiner

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(57) **ABSTRACT**

The present invention provides an electrical device connection terminal capable of preventing improper insulation owing to lead wire chips being dropped and built up. To attain this feature, a side wall 26 for separating a lead wire holding portion 25 from a lead fitting 43 is projected on the bottom face fringe of the lead wire holding portion 25 so as to be adjacent to one side of the lead fitting 43.

5 Claims, 25 Drawing Sheets

